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10/724,211	12/01/2003	Takashi Miyazawa	117783 9841	
25944 OLIFF & BERI	7590 03/05/200 RIDGE, PLC	EXAMINER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

·	Application No.	Applicant(s)			
*	10/724,211	MIYAZAWA, TAKASHI			
Office Action Summary	Examiner	Art Unit			
	William L. Boddie	2629			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status		•			
1) Responsive to communication(s) filed on <u>03 December 2007</u> .					
·—	•				
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 18-20 and 37-51 is/are pending in the 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 18-20 and 37-51 is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate			

Application/Control Number: 10/724,211 Page 2

Art Unit: 2629

#### **DETAILED ACTION**

1. In an amendment dated, September 4th, 2007, the Applicant presented translations of their foreign priority documents. Currently claims 18-20 and 36-51 are pending.

### Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 4<sup>th</sup>, 2007 has been entered.

## Response to Arguments

3. Applicant's arguments with respect to claims 18-20 and 36-51 have been considered but are most in view of the new ground(s) of rejection.

## Allowable Subject Matter

4. The indicated allowability of claims 18-20 is withdrawn in view of the newly discovered reference(s) to Yumoto and Kanatani. Rejections based on the newly cited reference(s) follow.

### Claim Objections

5. Claim 45 is objected to because of the following informalities: claim 45 does not currently have a period. Appropriate correction is required.

## Claim Rejections - 35 USC § 112

Application/Control Number: 10/724,211 Page 3

Art Unit: 2629

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly

claiming the subject matter which the applicant regards as his invention.

- 7. Claims 37-39 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 8. Specifically in claim 37, the Applicant first defines a first and second plurality of scanning lines in lines 2-3 of the claim. However, throughout the remainder of the claim the Applicant switches between distinguishing between the scanning lines and not distinguishing between them. For instance, in lines 9 and 15, the Applicant states, "through one scanning line of the plurality of scanning lines" and "a first scanning signal line of the plurality of scanning lines" respectively. It is unclear which scanning lines the Applicant is discussing.

Furthermore, line 9 of page 6 of the claims fails to identify which unit circuit the second and third transistors belong to.

9. Claim 39 is also indefinite for its failure to properly define a fifth period. The claim currently states, that the fifth period occurs "from a third time when the turning on the second transistor included in the second set of unit circuits is completed from a fourth time when the setting of the conduction state of the first transistor included in the third set of unit circuits commences."

# Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

11. Claims 19-20, 36 and 40-51 rejected under 35 U.S.C. 102(b) as being anticipated by Yumoto (US 6,859,193).

With respect to claim 19, Yumoto discloses, a method of driving an electrooptical apparatus (fig. 7) including n rows of scanning lines (scanA-B in fig. 7) each
including a first subscanning line (scanA1) and a second subscanning line (scanB1), m
columns of data lines (data in fig. 7), a power-supply line (Vdd in fig. 19), and a plurality
of unit circuits arranged in n rows and m columns in association with intersections of the
scanning lines and the data lines (fig. 7),

each of the plurality of unit circuits including a first transistor (TFT2 in fig. 19) having a first terminal and a second terminal (top and bottom of TFT2 in fig. 19), a capacitor (C in fig. 19) coupled to a first control terminal (gate of TFT2 in fig. 19) of the first transistor, a second transistor (TFT4 in fig. 19) that controls the electrical connection between the first terminal and the capacitor (fig. 19), the second transistor having a third terminal and a fourth terminal (left and right of TFT4 in fig. 19), a third transistor (TFT3 in fig. 19) having a fifth terminal and a sixth terminal (left and right of fig. 19), and an electro-optical element (OLED in fig. 19) connected to the first transistor (fig. 19);

and a second control terminal (gate of TFT4 in fig. 19) of the second transistor being coupled to the second subscanning line of one of the n rows of scanning lines (scanB in fig. 19), a third control terminal (gate of TFT3 in fig. 19) of the third transistor

being coupled to the first subscanning line of the one of the n rows of scanning lines (scanA in fig. 19), and the sixth terminal being connected to one of the m columns of data lines (data in fig. 19),

the method comprising:

a first step of accumulating a data signal supplied via one of the m columns of data lines in the capacitor as a charge while the second transistor and the third transistor are both on (beginning of the frame period in fig. 20a-b), and setting a conduction state of the first transistor according to the data signal (col. 20, line 49 - col. 21, line 8);

a second step of turning off the third transistor and turning on the second transistor (note the second pulse on scanB in fig. 20b), and supplying an amount of charge that causes reduction in the conduction state, set in the first step, of the first transistor (col. 21, lines 22-35); and

wherein, in one frame period, a set operation (writing operation) and a reset operation (extinguishing period) are executed alternately each time a scanning line is selected, the set operation causing the conduction state of the first transistor of each of unit circuits on one row connected to the selected scanning line, among the plurality of unit circuits, to be set according to the data signal, and the reset operation causing the second transistor of each of the unit circuits on one row coupled to the selected scanning line to be turned on to thereby turn off the first transistor (col. 20, line 49 – col. 21, line 35).

With respect to claim 20, Yumoto discloses, a method of driving an electrooptical apparatus according to claim 19 (see above), scanning lines on which the set
operation is executed and scanning lines on which the reset operation is executed being
each selected sequentially from the plurality of scanning lines (col. 11, lines 37-42).

With respect to claim 40, Yumoto discloses, a method of driving an electronic device (fig. 7) including a plurality of first signal lines (scanB1-BN in fig. 7), a plurality of second signal lines (scanA1-AN in fig. 7), a plurality of power-supply lines that intersect the plurality of second signal lines (Vdd in fig. 19), and a plurality of unit circuits (25 in fig. 7), each unit circuit including a first transistor having a first terminal, a second terminal, and a first channel region formed between the first terminal and the second terminal (TFT2 in fig. 19), and each unit circuit receiving a first signal supplied through one first signal line of the plurality of first signal lines (fig. 20a) and a second signal supplied through one second signal line of the plurality of second signal lines (fig. 20b), the method comprising:

setting a conduction state of the first transistor, the setting of the conduction state including a supply of the first signal through the one second signal line, each of a second transistor (TFT4 in fig. 19) that controls an electrical connection between the first terminal and a first gate and a third transistor (TFT3 in fig. 19) that is controlled by the first signal being in an on-state during at least a part of a first period in which the supply of the second signal, is carried out (col. 20, line 49 – col. 21, line 7); and

causing a reduction in the conduction state of the first transistor set by the setting of the conduction state, the second transistor and the third transistor being in an on-

Application/Control Number: 10/724,211

Art Unit: 2629

state and an off-state, respectively during at least part of a second period in which the causing of the reduction in the conduction state is carried out, and the first gate being electrically connected to one power-supply line of the plurality of power-supply lines during at least a part of the second period (figs. 19-20b; col. 21, lines 22-41).

With respect to claim 36, Yumoto discloses, an electronic device, wherein a driving method according to claim 40 (see above) is used (col. 25, lines 1-5).

With respect to claim 41, Yumoto discloses, the method according to claim 40 (see above), the first transistor being turned off during at least a part of the second period (col. 21, lines 30-31).

With respect to claim 42, Yumoto discloses, the method according to claim 40 (see above),

a potential of the one power-supply line being set at a first voltage level (Vdd in fig. 19), and

a second voltage level (threshold value of TFT1; col. 21, lines 28-31) different from the first voltage level being applied during at least a part of the second period (fig. 19).

With respect to claim 43, Yumoto discloses, the method according to claim 42 (see above),

the second voltage being obtained by subtracting a threshold voltage of the first transistor from the first voltage level, or

Application/Control Number: 10/724,211

Art Unit: 2629

the second voltage being obtained by adding the threshold voltage of the first transistor to the first voltage level (col. 21, lines 28-32; should also be noted that the pixel circuits are identical and as such will function identically).

With respect to claim 44, Yumoto discloses, the method according to claim 40 (see above), an electronic element (OLED in fig. 19) being coupled to the first transistor.

With respect to claim 45, Yumoto discloses, the method according to claim 44 (see above), the electronic element being reset during at least a part of the second period (col. 21, lines 33-50).

With respect to claim 46, Yumoto discloses, a method of driving an electrooptical device (fig. 7) including a plurality of first scanning lines (scanB1-BN in fig. 7), a
plurality of second scanning lines (scanA1-AN in fig. 7), a plurality of data lines (data in
fig. 7), a plurality of power-supply lines that intersect the plurality of data lines (Vdd in
fig. 19), and a plurality of unit circuits (pixels in fig. 7), each unit circuit including an
electro-optical element (OLED in fig. 19), a first transistor having a first terminal, a
second terminal, and a first channel region formed between the first terminal and the
second terminal (TFT2 in fig. 19), and each unit circuit receiving a first scanning signal
(fig. 20b) supplied through one first scanning line of the plurality of first scanning lines
and a second scanning signal (fig. 20a) supplied through one second scanning line of
the plurality of second scanning lines, the method comprising:

setting a conduction state of the first transistor, the setting of the conduction state including a supply of a data signal through one data line of the plurality of data lines, each of (i) a second transistor (TFT4 in fig. 19) that controls an electrical connection

Page 9

between the first terminal and a first gate according to the first scanning signal (fig. 19) and (ii) a third transistor (TFT3 in fig. 19) that is controlled by the second scanning signal being in an on-state during at least a part of a first period in which the supply of the data signal is carried out (figs. 19-20b); and

causing a reduction in the conduction state of the first transistor set by the setting of the conduction state, the second transistor and the third transistor being in an onstate and an off-state, respectively, during at least a part of a second period in which the causing of the reduction in the conduction state is carried out, and the first gate being electrically connected to one power-supply line of the plurality of power-supply lines during at least a part of the second period (figs. 19-20b; col. 20, line 50-col. 21, line 35).

With respect to claim 47, Yumoto discloses, the method according to claim 46 (see above), the first transistor being turned off during at least a part of the second period (col. 21, lines 29-32).

With respect to claim 48, Yumoto discloses, the method according to claim 46 (see above),

a potential of the one power-supply line being set at a first voltage level (Vdd in fig. 19), and

a second voltage level (threshold value of TFT1; col. 21, lines 28-31) different from the first voltage level being applied during at least a part of the second period (fig. 19).

With respect to claim 49, Yumoto discloses, the method according to claim 48 (see above).

the second voltage being obtained by subtracting a threshold voltage of the first transistor from the first voltage level, or

the second voltage being obtained by adding the threshold voltage of the first transistor to the first voltage level (col. 21, lines 28-32; should also be noted that the pixel circuits are identical and as such will function identically).

With respect to claim 50, Yumoto expressly discloses, the method according to claim 46 (see above), a supply of a current to the electro-optical element being stopped during at least a part of the second period (col. 21, lines 22-35).

With respect to claim 51, Yumoto discloses, the method according to claim 46 (see above), each of a first set of unit circuits of the plurality of unit circuits connected to a first power-supply line of the plurality of power-supply lines including the electro-optical element of a first color, and

each of a second set of unit circuits of the plurality of unit circuits connected to a second power-supply line of the plurality of power-supply lines including the electro-optical element of a second color (col. 21, lines 36-41).

## Claim Rejections - 35 USC § 103

- 12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. Claims 18 and 37-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yumoto (US 6,859,193) in view of Kanatani et al. (US 5,412,297).

With respect to claim 18, Yumoto discloses, a method of driving an electrooptical apparatus (fig. 7) including n rows of scanning lines (scanA-B in fig. 7) each
including a first subscanning line (scanA1) and a second subscanning line (scanB1), m
columns of data lines (data in fig. 7), a power-supply line (Vdd in fig. 19), and a plurality
of unit circuits arranged in n rows and m columns in association with intersections of the
scanning lines and the data lines (fig. 7),

each of the plurality of unit circuits including a first transistor (TFT2 in fig. 19) having a first terminal and a second terminal (top and bottom of TFT2 in fig. 19), a capacitor (C in fig. 19) coupled to a first control terminal (gate of TFT2 in fig. 19) of the first transistor, a second transistor (TFT4 in fig. 19) that controls the electrical connection between the first terminal and the capacitor (fig. 19), the second transistor having a third terminal and a fourth terminal (left and right of TFT4 in fig. 19), a third transistor (TFT3 in fig. 19) having a fifth terminal and a sixth terminal (left and right of fig. 19), and an electro-optical element (OLED in fig. 19) connected to the first transistor (fig. 19);

and a second control terminal (gate of TFT4 in fig. 19) of the second transistor being coupled to the second subscanning line of one of the n rows of scanning lines (scanB in fig. 19), a third control terminal (gate of TFT3 in fig. 19) of the third transistor being coupled to the first subscanning line of the one of the n rows of scanning lines (scanA in fig. 19), and the sixth terminal being connected to one of the m columns of data lines (data in fig. 19),

the method comprising:

a first step of accumulating a data signal supplied via one of the m columns of data lines in the capacitor as a charge while the second transistor and the third transistor are both on (beginning of the frame period in fig. 20a-b), and setting a conduction state of the first transistor according to the data signal (col. 20, line 49 - col. 21, line 8);

a second step of turning off the third transistor and turning on the second transistor (note the second pulse on scanB in fig. 20b), and supplying an amount of charge that causes reduction in the conduction state, set in the first step, of the first transistor (col. 21, lines 22-35); and

vertical scanning in which the n rows of scanning lines are sequentially selected one by one being performed at least twice in one frame period (col. 11, lines 37-42),

wherein, in the first time of vertical scanning, the conduction state of the first transistor of each of the one row of unit circuits coupled to the selected scanning line, among the plurality of unit circuits, is set according to the data signal, and when one of a second set of scanning lines, not included in the first set, is selected, the second transistor of each of the one row of unit circuits coupled to the selected scanning line is turned on to turn off the first transistor (col. 11, lines 37-40), and

wherein, in the second time of vertical scanning, when one of the second set of scanning lines, the conduction state of the first transistor of each of the one row of unit circuits coupled to the selected scanning line is set according to the data signal, and when one of the first set of scanning lines, not included in the second set, is selected, the second transistor of each of the one row of unit circuits coupled to the selected

scanning line is turned on to turn off the first transistor (col. 11, lines 37-40; col. 21, lines 28-32)

Yumoto does not expressly disclose interlaced scanning.

Kanatani discloses, alternating between writing and erasing for even and odd lines (fig. 3).

Kanatani and Yumoto are analogous art because they are both from the same field of endeavor namely electro-optic drive methods.

At the time of the invention it would have been obvious to one of ordinary skill in the art to select the rows and order of operation of Yumoto as taught by Kanatani for the benefit of enhanced display quality (Kanatani; col. 2, line 38 - col. 3, line 4).

With respect to claim 37, Yumoto discloses, a method of driving an electrooptical device (fig. 7) including:

- a plurality of first scanning lines (scanA1-AN in fig. 7);
- a plurality of second scanning lines (scanB1-BN in fig. 7);
- a plurality of data lines (data in fig. 7);
- a plurality of power-supply lines (VSP, VCKB and Vdd in figs. 7 and 19); and
- a plurality of unit circuits (25 in fig. 7), each unit circuit including an electro-optical element (OLED in fig. 7), a first transistor having a first terminal, a second terminal, and a first channel region formed between the first terminal and the second terminal (TFT2 in fig. 19), and each unit circuit receiving a scanning signal supplied through one scanning line of the plurality of scanning lines (scanB for example in fig. 19), each of the

plurality of unit circuits further including a second transistor (TFT3 in fig. 19) and a third transistor that is controlled by the scanning signal (TFT4 in fig. 19),

the method comprising:

setting a conduction state of the first transistor included in a first set of unit circuits of the plurality of unit circuits that are connected to a first scanning signal line of the plurality of scanning lines, each of the second transistor and the third transistor being in an on-state during at least a part of a first period in which the setting of the conduction state of the first transistor included in the first set of unit circuits is carried out (figs. 20a-b; col. 20, line 49 – col. 21, line 7);

turning on the second transistor included in the first set of unit circuits of the plurality of unit circuits that are connected to the first scanning line of the plurality of scanning lines during at least part of a second period in which the third transistor included in the first set of unit circuits is in off-state (fig. 20a-b; col. 21, lines 22-41),

the third transistor included in each of the plurality of unit circuits being in an offstate during a fourth period from a first time when the setting of the conduction state of the first transistor included in the first set of unit circuits is completed to a second time when the turning on the second transistor included in a second set of unit circuits commences (clear from fig. 20a, that the third transistor does not turn on again until all the other rows have been written).

Yumoto has disclosed that the write/extinguish process is applied successively through the display panel. Yumoto has not expressly disclose that the write/extinguish process is applied in a write - row 1; reset - row 2; write - row 3....

Kanatani discloses, alternating between writing and erasing for even and odd lines (fig. 3). Specifically note that this order follows the sequence herein claimed, in that the first line is written, then the second line is erased, then the third line is written.

At the time of the invention it would have been obvious to one of ordinary skill in the art to select the rows and order of operation of Yumoto as taught by Kanatani for the benefit of enhanced display quality (Kanatani; col. 2, line 38 - col. 3, line 4).

To further explain the combination, Yumoto discloses the pixel and transistor operation limitations of the current claim. All that Yumoto does not disclose is the specific order of operations that are claimed. Kanatani discloses an order that fits within the limitations of the order currently claimed.

With respect to claim 38, Yumoto and Kanatani disclose, the method according to claim 37 (see above).

Yumoto, when combined with Kanatani, discloses, the first scanning signal line being adjacent to the second signal scanning line (Kanatani; fig. 3).

14. Claims 37 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yumoto (US 6,859,193) in view of Miyachi (US 6,937,224).

With respect to claim 37, Yumoto discloses, a method of driving an electrooptical device (fig. 7) including:

- a plurality of first scanning lines (scanA1-AN in fig. 7);
- a plurality of second scanning lines (scanB1-BN in fig. 7);
- a plurality of data lines (data in fig. 7);
- a plurality of power-supply lines (VSP, VCKB and Vdd in figs. 7 and 19); and

a plurality of unit circuits (25 in fig. 7), each unit circuit including an electro-optical element (OLED in fig. 7), a first transistor having a first terminal, a second terminal, and a first channel region formed between the first terminal and the second terminal (TFT2 in fig. 19), and each unit circuit receiving a scanning signal supplied through one scanning line of the plurality of scanning lines (scanB for example in fig. 19), each of the plurality of unit circuits further including a second transistor (TFT3 in fig. 19) and a third transistor that is controlled by the scanning signal (TFT4 in fig. 19),

the method comprising:

setting a conduction state of the first transistor included in a first set of unit circuits of the plurality of unit circuits that are connected to a first scanning signal line of the plurality of scanning lines, each of the second transistor and the third transistor being in an on-state during at least a part of a first period in which the setting of the conduction state of the first transistor included in the first set of unit circuits is carried out (figs. 20a-b; col. 20, line 49 – col. 21, line 7);

turning on the second transistor included in the first set of unit circuits of the plurality of unit circuits that are connected to the first scanning line of the plurality of scanning lines during at least part of a second period in which the third transistor included in the first set of unit circuits is in off-state (fig. 20a-b; col. 21, lines 22-41),

the third transistor included in each of the plurality of unit circuits being in an offstate during a fourth period from a first time when the setting of the conduction state of the first transistor included in the first set of unit circuits is completed to a second time when the turning on the second transistor included in a second set of unit circuits

commences (clear from fig. 20a, that the third transistor does not turn on again until all the other rows have been written).

Yumoto has disclosed that the write/extinguish process is applied successively through the display panel. Yumoto has not expressly disclose that the write/extinguish process is applied in a write - row 1; reset - row 2; write - row 3....

Miyachi discloses, alternating between writing and erasing for lines (fig. 11a-b). Specifically note that the order of Miyachi follows the sequence herein claimed, in that the first line is written, a second line is reset, then a third line is written.

At the time of the invention it would have been obvious to one of ordinary skill in the art to select the rows and order of operation of Yumoto as taught by Miyachi for the benefit of enhanced display quality (Miyachi; col. 16, lines 4-10).

To further explain the combination, Yumoto discloses the pixel and transistor operation limitations of the current claim. All that Yumoto does not disclose is the specific order of operations that are claimed. Miyachi discloses an order that fits within the limitations of the order currently claimed.

With respect to claim 39, Yumoto and Miyachi disclose, the method according to claim 37 (see above).

Yumoto, when combined with Miyachi, discloses, the first scanning signal line being adjacent to the third scanning signal line (Miyachi; fig. 11b), and the third transistor included in each of the plurality of unit circuits being in an off-state during a fifth period from a third time when the turning on the second transistor included in the second set of unit circuits is completed from a fourth time when the setting of the

Application/Control Number: 10/724,211 Page 18

Art Unit: 2629

conduction state of the first transistor included in the third set of unit circuits commences (Miyachi; fig. 19-20b; col. 21, lines 21-41).

#### Conclusion

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILLIAM L. BODDIE whose telephone number is (571)272-0666. The examiner can normally be reached on Monday through Friday, 7:30 - 4:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

wlb 2/26/08

SUMBUMATÍ LÉFKÖWITZ UPEBYPERVISORY PATENT EXAMINER